



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

4.5NR-OH
Job Sheet OH190625



Part No: 4.5NR-OH

Job Qty: 1 ea

Part Name: Nubbins Receiver Hook



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/12/19

Job Tracking No: s/n m766-01

Due Date: 4/9/19

Created By: Jesse White

Type: Rework - OH

Description: ra552

Note: DWG OM & OOPM-4.5NR Rev. 5 IPP Rev. A 18.05.01 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	External Load - 1	1 pcs	4/9/19	4/9/19	0.00	0.50	External Load - 1		
							External Load - 2		
							External Load - 3		
120	QC	1 pcs	4/9/19	4/9/19	0.00	0.00	QC5		
121	Outsource	1 pcs	4/9/19	4/9/19			SKY002-VC	P/O: 042 5169	MAR 12 2019
122	Packaging	1 pcs	4/9/19	4/9/19	0.00	0.00	Packaging2		MAR 19 2019
123	QC	1 pcs	4/9/19	4/9/19	0.00	0.00	QC6		MAR 21 2019
130	Customer Acceptance	1 pcs	4/9/19	4/9/19	0.00	0.00			9-89
140	Outsource	1 pcs	4/9/19	4/9/19			GRO002-VC		03/25/2019 PL
150	Packaging	1 pcs	4/9/19	4/9/19	0.00	0.00	Packaging2		MAR 29 2019
160	QC	1 pcs	4/9/19	4/9/19	0.00	0.00	QC6		APR 02 2019
170	Small Fab	1 pcs	4/9/19	4/9/19	0.00	1.00	Small Fab-9	ext 3	9-89
180	QC	1 pcs	4/9/19	4/9/19	0.00	0.00	QC5		9-89
185	DC	1 pcs	4/9/19	4/9/19	0.00	0.00	DC		MAY 24 2019
190	Packaging	1 pcs	4/9/19	4/9/19	0.00	0.00	Packaging3-2		9-89
200	QC21-FG	1 Ea	4/9/19	4/9/19	0.00	0.00	QC21		MAY 24 2019

Part Op 110 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.
Descriptions: 140 - Issue P/O to GROUPE ALTECH: P/O _____ -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Certificate of Conformity is required
170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY. (OH KIT LIST 648.4712)
185 - Photocopy blue file and create labels ***Manual O&OPM-4.5 NR REV.5***

Add S/N to Container



Container No: S161580



Part: 4.5NR

Job No: OH190625

Serial No/Batch: S161580

Revision: 5

Inspector:

Exp Date:

Instructions:

Date: 03/12/19

Plex 2/12/19 11:08 AM dart.white.jesse

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐																															
Date : _____		Sequence #: _____		QTY Affected : _____		MRB (QSI042)																													
Description Work Order Deviation				Disposition																															
				Completed By																															
				Lead hand / Supervisor																															
				QC / QA Coordinator																															
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY <table border="0"><tr><td>☐ Pressure/Forced</td><td>☐ Contamination</td><td>☐ Power Loss/Surge</td><td>☐ Positioned Wrong</td></tr><tr><td>☐ Bending</td><td>☐ Misaligned/off center</td><td>☐ Folio/Program</td><td>☐ Outside Tolerance</td></tr><tr><td>☐ Crushing</td><td>☐ BOM/Route</td><td>☐ Grain Direction</td><td>☐ Drawing</td></tr><tr><td>☐ Cracks</td><td>☐ Broken/Damage/Defect</td><td>☐ Weld</td><td>☐ Finish</td></tr><tr><td>☐ Crimp/Kink/Ripple/Wave/Twist</td><td>☐ Incomplete/Unclear Instructions</td><td>☐ Wrong Stock Pulled</td><td>☐ Part Lost/Missing</td></tr><tr><td>☐ Marks/Chatter</td><td>☐ Drill Holes</td><td>☐ Out of Sequence</td><td>☐ Misread</td></tr><tr><td>☐ Mislabeled</td><td>☐ Fit/Function</td><td>☐ Off-set/Set-up</td><td></td></tr></table>						☐ Pressure/Forced	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☐ Outside Tolerance	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☐ Drawing	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
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Other/Details: _____																																			

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
4.5NR-AR	Nubbins Receiver Hook	1 pcs (1 ea)	110-External Load - 1	S152250
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	170-Small Fab	S110495
4.5NR-10	Lock Roller Pin	1 pcs (1 ea)	170-Small Fab	S103 919
4.5NR-13P	Lock Bearing Screw	1 pcs (1 ea)	170-Small Fab	S172707
4.5NR-15P	Lock Bearing	1 pcs (1 ea)	170-Small Fab *	S099268
4.5NR-17P	Lock Bushing	1 pcs (1 ea)	170-Small Fab	S029125
4.5NR-20P	Load Stop Bushing	2 pcs (2 ea)	170-Small Fab *	S151053
4.5NR-23P	Load Stop Back Bumper	1 pcs (1 ea)	170-Small Fab	S150169
4.5NR-24P	Load Stop Front Bumper	1 pcs (1 ea)	170-Small Fab *	S150167
4.5NR-30P	Solenoid Cover Screw	2 pcs (2 ea)	170-Small Fab *	S138934
4.5NR-35P	Latch Bushing	2 pcs (2 ea)	170-Small Fab *	S166833
4.5NR-36P	Latch Spring	2 pcs (2 ea)	170-Small Fab *	S156006
4.5NR-39P	Keeper Spring	1 pcs (1 ea)	170-Small Fab	S029147
4.5NR-46P	Lever Bushing	1 pcs (1 ea)	170-Small Fab	S029154
4.5NR-52R	Keeper Bushing	1 pcs (1 ea)	170-Small Fab	S167258
4.5NR-7P	Lifter Bushing	2 pcs (2 ea)	170-Small Fab	S029162
4.5NR-9	Lifter Spring	2 pcs (2 ea)	170-Small Fab	S149841
AN6-13A	Bolt	6 Ea (6 ea)	170-Small Fab	S158075-1
AN6-14A	Machine Bolt 3/8-24 X 1.58 - Steel	1 Ea (1 ea)	170-Small Fab	S119268-1
AN6-24A	Hex Bolt 3/8-24 X 2 1/2"	1 Ea (1 ea)	170-Small Fab	S119263-1
AN6-40A	3/8-24 Bolt X 3" Long	1 Ea (1 ea)	170-Small Fab S11840	S101840 S04108
AN7-24A	Bolt	1 Ea (1 ea)	170-Small Fab	S071831
AN7-40A	Bolt	1 Ea (1 ea)	170-Small Fab	S101840
C45-10-1P	Lock Spring Pin	1 pcs (1 ea)	170-Small Fab	S029293
C45-13-2P	Teflon Keeper, Spacer	2 pcs (2 ea)	170-Small Fab *	S040660
C45-3-2-1P	Snap Ring	2 pcs (2 ea)	170-Small Fab	S029317
C45-3-4-1P	Retaining Ring	2 pcs (2 ea)	170-Small Fab *	S114803
C45-3-5P	Teflon Spacer	2 pcs (2 ea)	170-Small Fab	S029321
MS21044N6	Nut, Self-Lock .375-24, UNJF-3B	1 Ea (1 ea)	170-Small Fab	S099740
MS21044N7	Keeper Nut	2 Ea (2 ea)	170-Small Fab	S100411
MS21083N3	Nut	2 Ea (2 ea)	170-Small Fab	S087938
MS21083N6	Nut	1 Ea (1 ea)	170-Small Fab	S076012
NAS1149F0332P	Washer	2 Ea (2 ea)	170-Small Fab	S103666
NAS1149F0632P	Washer	2 Ea (2 ea)	170-Small Fab	S067038
NAS1149F0663P	Washer	9 Ea (9 ea)	170-Small Fab	S051477-2
NAS1149F0763P	Washer	4 Ea (4 ea)	170-Small Fab	S078165

4.5NR-45 LATCH ROLLER PIN

1

S167315

4.5NR-33 CAGE SPACER

1

S151099

4.5NR-32 RELEASE KNOB

1

S159212

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date : _____		Sequence #: _____		QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation				Disposition			
				Completed By			
				Lead hand / Supervisor			
				QC / QA Coordinator			
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread					
		Other/Details:					

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-External Load - 1 170-Small Fab	4.5NR	1	1	0
	188-FPSS-1032-1/4	2	222	0
	4.5NR-10	1	6	0
	4.5NR-13P	1	1	0
	4.5NR-15P	1	0	0
	4.5NR-17P	1	15	0
	4.5NR-20P	2	3	0
	4.5NR-23P	1	1	0
	4.5NR-24P	1	2	0
	4.5NR-30P	2	0	0
	4.5NR-35P	2	2	0
	4.5NR-36P	2	4	0
	4.5NR-39P	1	40	0
	4.5NR-46P	1	72	0
	4.5NR-52P	1	1	0
	4.5NR-7P	2	11	0
	4.5NR-9	2	16	0
	AN6-13A	6	26	0
	AN6-14A	1	26	0
	AN6-24A	1	27	0
	AN6-40A	1	112	0
	AN7-24A	1	25	0
	AN7-40A	1	34	0
	C45-10-1P	1	23	0
	C45-13-2P	2	26	0
	C45-3-2-1P	2	310	0
	C45-3-4-1P	2	0	0
	C45-3-5P	2	77	0
	MS21044N6	1	28	0
	MS21044N7	2	26	0
	MS21083N3	2	135	0
	MS21083N6	1	119	0
	NAS1149F0332P	2	2,970	0
	NAS1149F0632P	2	427	0
	NAS1149F0663P	9	296	0
	NAS1149F0763P	4	161	0

Part Specifications

Specifications could not be found.

Plex 2/12/19 11:08 AM dart.white.jesse

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor		
			QC / QA Coordinator		
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Overhaul Incoming Inspection
4.5NR Cargo Hook

Customer

OH190625 / RA552

Date

2019/02/14

Part Number

4.5 NR

Serial Number

M766-01

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

S101545	(1)	4.5 NR-6	SIDE PLATE	☐
S166106	(1)	4.5 NR-27	SOLENOID	☐
N	(1)	4.5 NR-45	LATCH ROLLER PIN	☐
S103919	(1)	4.5 NR-10	LOCK ROLLER PIN	☐
S121275	(1)	4.5 NR-14P	LOCK ROLLER	☐
S121264	(1)	4.5 NR-28	SOLENOID COVER	☐
S118247	(1)	8183 KG	WIRE GRIP	☐
S154004	(2)	4.5 NR-34	LOAD RAIL	☐
				☐
				☐

Inspected By

ALAIN PATRY



NDT Inspection Form 4.5 NR

Work Order

OH 190625

Customer

RA 552

Serial Number

M766-01

Date

2019/02/14

MAGNAFLUX

Part Number	Description	Quantity	
4.5 NR-8	Lifter	1	
4.5 NR-10	Lock Roller Pin	0	
4.5 NR-12	Latch	1	
4.5 NR-14	Lock Roller	0	
4.5 NR-16	Lock	1	
4.5 NR-18	Load Stop	1	
4.5 NR-40	Keeper	1	
4.5 NR-41	Latch Roller	1	
4.5 NR-43	Lever	1	
4.5 NR-45	Latch Roller Pin	0	

ZYGLO

Part Number	Description	Quantity	Pass/Fail
4.5 NR-6	Side Plate Cover	0	
4.5 NR-25	Side Plate Solenoid	1	

Tested by

Signed



Remote Cargo Hook Test Form

4.5NR

Work Order 0H190625

Customer RA 552

Serial Number M 766-01

Date 2019-2-13

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	4,500	Electircal, 22 volts	Current shall not exceed 4.5A	4.0 A	Pass
2	3,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.7 A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.5 A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.5 A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 4.5A	3.5 A	Pass
1	4,500	Electircal, 20 volts	Current shall not exceed 4.1A	3.2 A	Pass
1	4,500	Electircal, 28 volts	Current shall not exceed 5.7A	4.5 A	Pass
1	4,500	Manual		N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 4.9-5.6 Ohms	Ω	
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Michel Lalonde

Technician

Submit

Signature: _____

QC 5 Small FAB / QA



NDT Inspection Form 4.5 NR

Work Order

OH 190625

Customer

RA 552

Serial Number

M766-01

Date

2019/02/14

MAGNAFLUX

Part Number	Description	Quantity	
4.5 NR-8	Lifter	1	
4.5 NR-10	Lock Roller Pin	0	
4.5 NR-12	Latch	1	
4.5 NR-14	Lock Roller	0	
4.5 NR-16	Lock	1	
4.5 NR-18	Load Stop	1	
4.5 NR-40	Keeper	1	
4.5 NR-41	Latch Roller	1	
4.5 NR-43	Lever	1	
4.5 NR-45	Latch Roller Pin	0	

ZYGLO

Part Number	Description	Quantity	Pass/Fail
4.5 NR-6	Side Plate Cover	0	
4.5 NR-25	Side Plate Solenoid	1	

Tested by

Signed



NDT Inspection Form 4.5 NR

Work Order

OH 190625

Customer

RA 552

Serial Number

M766-01

Date

2019/02/14

MAGNAFLUX

Part Number	Description	Quantity	
4.5 NR-8	Lifter	1	
4.5 NR-10	Lock Roller Pin	0	
4.5 NR-12	Latch	1	
4.5 NR-14	Lock Roller	0	
4.5 NR-16	Lock	1	
4.5 NR-18	Load Stop	1	
4.5 NR-40	Keeper	1	
4.5 NR-41	Latch Roller	1	
4.5 NR-43	Lever	1	
4.5 NR-45	Latch Roller Pin	0	

ZYGLO

Part Number	Description	Quantity	Pass/Fail
4.5 NR-6	Side Plate Cover	0	
4.5 NR-25	Side Plate Solenoid	1	

Tested by



ANTONINO MARCHETTA

MAR 13 2019

Signed

A. PATRY



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO042869**



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042869

PO Date: 3/12/19

Due Date: 3/15/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

REVISED

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	187760	D4883-3	End Fitting : Various STC's issue P/O: Certificate of conformaty is required. LPI AS PER ASTM E1417 LEVEL 2	Firmed	-	3/15/19	10 pcs	0 pcs	10 pcs	\$17.80/pcs	\$178.00
						10 X MAR 19 2019					
2	OH190613	4.5NR-OH	Nubbins Receiver Hook MAGNAFLUX	Firmed	-	3/15/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X MAR 19 2019					
	OH190625			Firmed	-	3/15/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	OH190626			Firmed	-	3/15/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Sub Total:							3	0	3		\$534.00

Grand Total: \$712.00

CL



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042869



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/18/19 1:48 PM dart.lavoie.chantal

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

WO #: MWO39626

Customer: Dart Aerospace Ltd.

Dept: NDT YUL

Reference: PO42869

Descr:

PN:

S/N:

Qty: 1

Make:

Model:

Reg:

A/C S/N:

TSN:

CSN:

TSO:

Task: **UNSCHEDULED**

Sequence: 1

Work Required:

CARRY OUT NDT INSPECTION (LIQUID PENETRANT) ON 38 MISC PARTS

ITEM ID: D4883-3 END FITTING

1 - WORK ORDER ID#: 187760 (QTY 10)

ITEM ID: 4.5NR-OH NUBBINS RECEIVER HOOK **DAS 68 9-89**

2 - WORK ORDER ID#: OH190613 (QTY 9)

3 - WORK ORDER ID#: OH190625 (QTY 8)

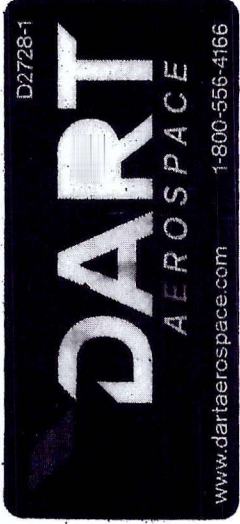
4 - WORK ORDER ID#: OH190613 (QTY 11)

OH190626.

Action Taken:	Date:	Initial/Stamp:																																																								
LIQUID PENETRANT AND MAGNETIC PARTICLE INSPECTION C/O ON ITEMS LISTED ABOVE (ITEM #1 TO 4) IAW ASTM E-1417M-16 AND E-1444M-16 ***NO CRACK FOUND*** PEN ZL-37, MPO23206, CLEANER SKC-S MPO15030, EMU. MPO15896, DEV. MPO23451, UV LIGHT M-20142 MAGBENCH S/N 208123 CAL DUE: 5-APR-2019, POWDER 14A BATCH# MPO13600, CARRIER II BATCH# MPO22794	MAR 13 2019	DOT-APP 61 53-89																																																								
<table border="1"><thead><tr><th>Description</th><th>Location</th><th>P/N</th><th>Qty</th><th>Batch</th><th>S/N Off</th><th>S/N On</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Description	Location	P/N	Qty	Batch	S/N Off	S/N On																																																			
Description	Location	P/N	Qty	Batch	S/N Off	S/N On																																																				

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp DOT-APP 61 53-89	Date: MAR 13 2019
Name: ANTONINO MARCHETTA		



DATE: 2018/03/25

NICKEL PLATING

MODEL: 4.5 NR

S/N : M 766-01

JOB : OH190625 / RA552

P/N	DESCRIPTION	QUANTITY
4.5 NR-12	LATCH	1
4.5 NR-18	LOAD STOP	1
4.5 NR-40	KEEPER	1

A. PATRY



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042977



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042977

PO Date: 3/25/19

Due Date: 4/1/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH189825	C10-OH	C-Series Remote Hook 10,000 lbs Lift Capacity -Issue P/O; -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	4/1/19	1 pcs	0 pcs	1 pcs	\$400.00/pcs	\$400.00

Line Item Note ** NEED BACK MARCH 29, 2019 * RUSH **

2	OH191622	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity -Issue P/O; -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	4/1/19	1 pcs	0 pcs	1 pcs	\$350.00/pcs	\$350.00
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042977



Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	OH190613	4.5NR-OH	Nubbins Receiver Hook -Issue P/O to GROUPE ALTECH: P/O -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Certificate of Conformity is required	Firmed XI	-	4/1/19	1 pcs	0 pcs	1 pcs	\$120.00/pcs	\$120.00
	OH190626			Firmed	-X	4/1/19	1 pcs	0 pcs	1 pcs	\$120.00/pcs	\$120.00
	OH190625			Firmed	-X	4/1/19	1 pcs	0 pcs	1 pcs	\$120.00/pcs	\$120.00
Sub Total:							3	0	3		\$360.00

Grand Total: \$1,110.00

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/26/19 11:57 AM dart.Lussier.Patrick



Certificat de Conformité / Certificate of Compliance



2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

017971- 1

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
28-Mar-2019		Shankar Anand		042977				
#Ligne Line#	No. de Série / # Pièce Part Number / Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order
1	C10-OH Rev.	C10-OH SANDBLAST PAINT PARTS STRIP NICKEL PARTS NICKEL PLATE QQ-N-290 CLASS 2 GRADE E OR F 0.0004-0.0006 BAKE AFTER PLATING	E-NICKEL-500 LOT	1	1	0	0	0
2	C60-OH Rev.	C60-OH 01 -E-NIC STEEL 200 [E-NICKEL STEEL 200] QQ-N-290 CLASS 2 GRADE E OR F 0.0004 TO 0.0006 THICK BAKE AFTER PLATING	E-NICKEL-200 LOT	1	1	0	0	0
3	4.5NR-OH Rev.	4.5NR-OH 01 -E-NIC STEEL 500 [E-NICKEL STEEL 500] 0.004 TO 0.006 THICK AND BAKE	E-NICKEL-200 CH	3	3	0	0	0

Notes Additionnelles / Additional Notes

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

[Signature]

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.



Remote Cargo Hook Test Form

4.5NR

Work Order 190 625

Customer RA 552

Serial Number M 766-01

Date 2019-5-23

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	4,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.7 A	Pass
2	3,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.5 A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.2 A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 4.5A	3.1 A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 4.5A	3.0 A	Pass
1	4,500	Electircal, 20 volts	Current shall not exceed 4.1A	2.9 A	Pass
1	4,500	Electircal, 28 volts	Current shall not exceed 5.7A	4.1 A	Pass
1	4,500	Manual		N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 4.9-5.6 Ohms	5.6 Ω	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Michael Lalonde

Technician

Submit

Signature: Sylvia Sanchez

QC 5 Small FAB / QA